

**"HORNET"**  
(CROWN "HA-13")  
**HAND HAMMER DRILL**  
**INGERSOLL-RAND COMPANY**  
11 BROADWAY, NEW YORK

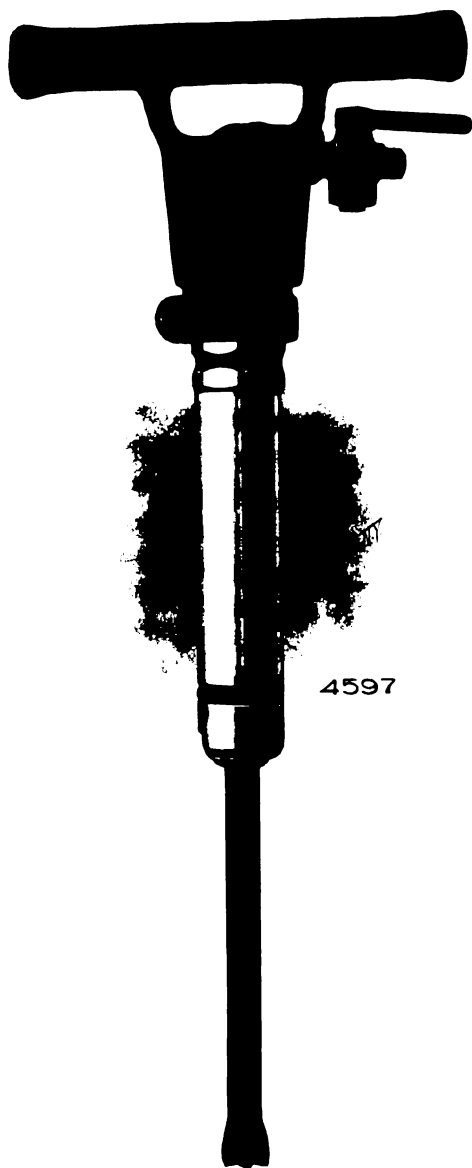
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Drilling with the "Hornet" Hand Hammer Drill

"HORNET" HAND HAMMER DRILL



Standard "Hornet" Hand Hammer Drill ("Crown HA-13")

## **"H O R N E T"     H A N D     H A M M E R     D R I L L**

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**T**HE "Hornet" Hand Hammer Drill is one of the standard line of Ingersoll-Rand "Crown" hammer drills, with symbol "HA-13." It is intended for somewhat heavier duty than the "Wasp" ("Crown HA-14") plug drill, being adapted for holes up to 48 inches in depth, with bottom diameter of 1 to 1½ inches. It is fitted with a hollow anvil block and removable bushing, for use with hollow steels, a part of the exhaust passing through the steel and blowing the face clean under the bit. But it can be fitted with a solid anvil block for use with solid steels without shank and collar.

The handle is of a special improved type, giving either the usual spade grip in the middle or two grips well separated at the ends for easy rotation. Air admission is at the side of the head-block and a standard ½-inch drill throttle valve is screwed in at this point.

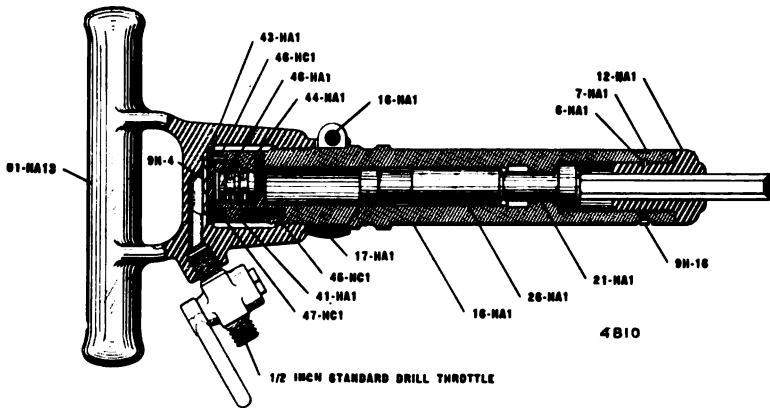
The "Hornet" has the latest type of "Crown" valve. The cylinder is of special steel, hardened and ground in the bore. The piston or hammer is of hardened steel, as well as all other wearing parts. The best materials are used throughout, and the workmanship cannot be surpassed. The tool is one of large capacity, utmost convenience and splendid wearing qualities. The specifications of the "Hornet" are given below.

Cylinder Diameter	1¾ inches
Stroke	3¼ inches
Length over all	21 inches
Size of Air Inlet	½ inch
Weight	40 lbs.

Water-displacement meter tests of this tool show the following air consumptions:

AIR PRESSURE	CU. FT. FREE AIR PER MIN.
40 lbs.	12
50 lbs.	18
60 lbs.	22
70 lbs.	26
80 lbs.	30
90 lbs.	35
100 lbs.	40

# "HORNET" HAND HAMMER DRILL



## Duplicate Part List

01-HA13	Handle	20-HA1	Piston
9H-4	Inlet Screen	21-HA1	Anvil Block
10-HA1	Cylinder	41-HA1	Valve Box
6-HA1	Cylinder Bushing Pin	40-HA1	Valve
7-HA1	Cylinder Bushing Pin Spring	43-HA1	Valve Box Top Cap
12-HA1	Cylinder Bushing	44-HA1	Valve Box Bottom Cap
9H-16	Cylinder Plug	45-HC1	Valve Box Bottom Dowel
17-HA1	Cylinder Clamp	46-HC1	Valve Box Cap Dowel
18-HA1	Cylinder Clamp Bolt	47-HC1	Valve Box Top Dowel
19-HA1	Cylinder Clamp Bolt Washer		